

Breakdown of Tasks to Bring the Current Plan to the 25% Design Phase of MassDOT Standards

| MassDOT Task Item | Description | cost* |
|-------------------|--------------------------------------------------------------------------------------------------------------------------------|-----------|
| 151 | Early Environmental Coordination Design Submission Checklist | \$ 5,000 |
| 152 | Historical/Archaeology (Federal Section 106 and State Chapter 254) | \$ 500 |
| 154 | Hazardous Materials Research/Reivew | \$ 400 |
| 155 | Project Development Meetings and Public Hearings | \$ 2,000 |
| 157 | NEPA - Categorical Exclusion (CE) | \$ 4,000 |
| 158 | NEPA Environmental Assessment (EA) | \$ 8,000 |
| 163 | MEPA - Environmental Notification Form (ENF) | \$ 8,000 |
| 170 or 171 | USACE Section 4040 General Permit (PGP); USACE Individual Section 4040 Permit | \$ 6,000 |
| 173 or 174/175 | Programatic Section 4(f) Evaluations; Draft Individual Section 4(f) Evalulation; Final Individual Section 4(f) Evaluation | \$ 5,000 |
| 176 | Wetland Resource Area Delineation | \$ 3,000 |
| 177 | WPA Abbreviated Notice of Resource Area Determination (ANRAD) | \$ 1,500 |
| 179 | WPA Notice of Intent (NOI) | \$ 8,000 |
| 182 | Water Quality Certification | \$ 1,000 |
| 187 | Impaired Waterbody Assessment and Water Quality Data Form | \$ 500 |
| 200 | Functional Design Report | \$ 8,000 |
| 220 | Design Exception Report | \$ 8,000 |
| 301 | Project Initiation and Data Compilation | \$ 2,000 |
| 302 | Utility Coordination | \$ 3,000 |
| 303-306 | Survey Coordination and Controls; Base Plans, profiles, and typical sections; Field Reconnaissance; Plot Existing Layout Lines | \$ 28,000 |
| 307 | Meetings and Liaison | \$ 2,000 |
| 309 | Preliminary Horizontal Geometry | \$ 4,000 |

may not be required

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|---------|------------------------------------------------------------------------------|---------------------|
| 310-312 | Preliminary Vertical Geometry; Cross Section Studies; Prepare Cross Sections | \$ 14,000 |
| 313 | Plot Proposed Layout and Easements | \$ 2,000 |
| 314 | Pavement Design | \$ 2,000 |
| 315 | Typical Sections | \$ 2,000 |
| 316 | Construction Details | \$ 2,000 |
| 318 | Preliminary Drainage and Utility Studies | \$ 24,000 |
| 320 | Traffic Signals | \$ 15,000 |
| 321 | Signs and Pavement Markings | \$ 4,000 |
| 322 | Traffic Management | \$ 2,000 |
| 324 | Constructability Review | \$ 1,000 |
| 325 | Quality Control Review | \$ 6,000 |
| 326 | Preliminary Construction Estimate | \$ 6,000 |
| 327 | Submission Checklist | \$ 1,500 |
| 328 | Modificaitons and Revisions | \$ 6,000 |
| 330 | Construction Contract Time Determination | \$ 1,000 |
| 350-351 | Design Public Hearing; Hearing Preparation | \$ 5,000 |
| | preliminary ROW | \$ 25,000 |
| | coring/boring | \$ 25,000 |
| | printing | \$ 1,500 |
| | mileage | \$ 1,000 |
| | police | \$ 5,500 |
| | misc | \$ 2,000 |
| | Total for Completion of 25% Design Plans | \$ 261,400 |
| | Say | \$ 265,000 |
| | 20% Contingency | \$ 318,000.0 |

*cost based on \$100/hr